

IFW

ATTORNEY DOCKET NO. 03234.0018U3  
APPLICATION NO. 10/786,652

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
 )  
**SRINIVAS** ) Confirmation No. 2861  
 )  
Application No. 10/786,652 ) Group Art Unit: 1745  
 )  
Filed: February 25, 2004 ) Examiner: Unassigned  
 )  
FOR: "SULFONATED CONDUCTING POLYMER- )  
GRAFTED CARBON MATERIAL FOR FUEL )  
CELL APPLICATIONS" )

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

MAIL STOP AMENDMENT  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.  
Customer Number 23859

August 30, 2006

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Information Disclosure Statement List is a listing of documents known to Applicants and/or their attorneys. In accordance with 37 C.F.R. § 1.98(a)(2), copies of any cited U.S. patent or U.S. patent application publication documents are not enclosed. Copies of any cited foreign patent document and/or any non-patent publication are enclosed.

Also enclosed are copies of documents cited by or submitted to the U.S. Patent and Trademark Office, PCT, and foreign patent offices in numerous other patent application(s). See Exhibit A attached hereto and its attachments.

In accordance with the provisions of M.P.E.P. § 2001.06(b) and 37 C.F.R. § 1.98(b)(3), Applicants would like to bring to the attention of the Examiner the existence of the co-pending patent applications identified below, which were filed in the United States Patent and Trademark Office:

	<b><u>Application No.</u></b>	<b><u>Date Filed</u></b>	<b><u>Inventors</u></b>	<b><u>Attorney Docket No.</u></b>
1.	10/445,074	05/23/2003	Srinivas	03234.0018U2

ATTORNEY DOCKET NO. 03234.0018U3  
APPLICATION NO. 10/786,652

	<u>Application No.</u>	<u>Date Filed</u>	<u>Inventors</u>	<u>Attorney Docket No.</u>
2.	11/093,858	03/30/2005	Bollepalli <i>et al.</i>	03234.0028U2

The pending applications are stored in the Image File Wrapper (IFW) system of the USPTO. Accordingly, copies of the cited specifications, including the claims and drawings thereof, are not enclosed in accordance with the waiver to 37 C.F.R. § 1.98(a)(2)(iii) dated September 21, 2004.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(b)(3), in that a first Office Action on the merits of the present patent application has not yet been mailed to Applicants.

Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

No fee is believed due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.



Mitchell A. Katz

Registration No. 33,919

NEEDLE & ROSENBERG, P.C.

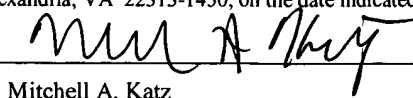
Customer Number 23859

(678) 420-9300 Phone

(678) 420-9301 Fax

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

  
Mitchell A. Katz

August 30, 2006  
Date



ATTORNEY DOCKET NO. 03234.0018U3  
APPLICATION NO. 10/786,652

## EXHIBIT A

**TABLE 1. U.S. Office Actions**

TAB NO.	APPLICATION NO.	DOCUMENT	DATE	N&R REFERENCE NO.
1	10/229,933	Notice of Allowance and Fee(s) Due	08/05/2005	03234.0002U2
2	10/445,273	Office Action	03/20/2006	03234.0016U2
3	10/445,090	Office Action	04/04/2006	03234.0017U2
4	10/445,074	Office Action	10/18/2005	03234.0018U2
5		Response to Office Action	01/17/2006	
6	10/654,234	Office Action	11/17/2005	03234.0021U1
7		Response to Office Action	04/17/2006	

**TABLE 2. PCT and Foreign Office Actions**

TAB NO.	APPLICATION NO.	DOCUMENT	DATE	N&R REFERENCE NO.
8	PCT/US03/16321 (counterpart to US 10/229,933)	International Search Report	08/26/2003	03234.0002P1
9		Written Opinion	04/13/2004	
10		International Preliminary Examining Report	09/01/2004	
11	PCT/US03/16654 (counterpart to US 10/445,273)	International Search Report	08/20/2003	03234.0016P1
12		Written Opinion	04/27/2004	
13		International Preliminary Examining Report	08/26/2004	
14	Eurasia 200401548/26 (counterpart to US 10/445,273)	Office Action	04/06/2005	03234.0016EA1
15		Response to Office Action	12/19/2005	

## EXHIBIT A

TAB NO.	APPLICATION NO.	DOCUMENT	DATE	N&R REFERENCE NO.
16	PCT/US03/16319 (counterpart to US 10/445,090)	International Search Report	03/29/2004	03234.0017P1
17		Written Opinion	11/12/2004	
18		International Preliminary Examining Report	01/04/2005	
19	Eurasia 200401552/27 (counterpart to US 10/445,090)	Office Action	01/30/2006	03234.0017EA1
20	PCT/US03/16320 (counterpart to US 10/445,074)	International Search Report	03/26/2004	03234.0018P1
21		Written Opinion	11/12/2004	
22		International Preliminary Examining Report	12/09/2004	
23	Eurasia 200401549 (counterpart to US 10/445,074)	Office Action	09/01/2005	03234.0018EA1
24		Response to Office Action	01/26/2006	
25		Office Action	03/30/2006	
26	EP 03729097.0 (counterpart to US 10/445,074)	Office Action	01/18/2006	03234.0018EP1
27		Response to Office Action	05/26/2006	
28	PCT/US04/015567 (counterpart to US 10/654,234)	International Search Report	10/27/2004	03234.0021P1
29		Written Opinion	10/27/2004	
30		International Preliminary Report on Patentability	12/08/2005	
31	PCT/US05/032652 (counterpart to US 11/093,858)	International Search Report	02/13/2006	03234.0028P1
32		Written Opinion	02/13/2006	

<h2 style="margin: 0;">INFORMATION DISCLOSURE STATEMENT LIST</h2> <p style="margin: 5px 0;">(Use as many sheets as necessary)</p>	<p style="margin: 0;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Application Number</td> <td>10/786,652</td> </tr> <tr> <td>Filing Date</td> <td>February 25, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>SRINIVAS</td> </tr> <tr> <td>Group Art Unit</td> <td>1745</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> </table>	Application Number	10/786,652	Filing Date	February 25, 2004	First Named Inventor	SRINIVAS	Group Art Unit	1745	Examiner Name	Unassigned
Application Number	10/786,652										
Filing Date	February 25, 2004										
First Named Inventor	SRINIVAS										
Group Art Unit	1745										
Examiner Name	Unassigned										

U.S. PATENT DOCUMENTS							
Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	L1	US 2006-0068987-A1	03/30/2006	Bollepalli <i>et al.</i>			

FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes No
	L2	WO 03/100884 A2	12/04/2003	Columbian Chemicals Co.	
	L3	WO 2004/107359 A1	12/09/2004	Columbian Chemicals Co.	
	L4	WO 2006/036544 A2	04/06/2006	Columbian Chemicals Co.	

NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)

<b>Examiner Signature:</b> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	<b>Date Considered</b>
--	------------------------

# INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

Application Number	10/786,652
Filing Date	February 25, 2004
First Named Inventor	SRINIVAS
Group Art Unit	1745
Examiner Name	Unassigned

## U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	K1	US 6,770,393 B2	08/03/2004	Akita <i>et al.</i>	429	33	
	K2	US 6,767,664 B2	07/27/2004	Akita <i>et al.</i>	429	42	
	K3	US 6,399,202 B1	06/04/2002	Yu <i>et al.</i>	428	403	
	K4	US 6,280,871 B1	08/28/2001	Tosco <i>et al.</i>	429	41	
	K5	US 5,851,280	12/22/1998	Belmont <i>et al.</i>	106	472	
	K6	US 5,837,045	11/17/1998	Johnson <i>et al.</i>	106	31.85	
	K7	US 5,803,959	09/08/1998	Johnson <i>et al.</i>	106	31.75	
	K8	US 5,707,432	01/13/1998	Adams <i>et al.</i>	106	31.6	
	K9	US 5,683,829	11/04/1997	Sarangapani	429	42	
	K10	US 5,672,198	09/30/1997	Belmont	106	20	
	K11	US 5,630,868	05/20/1997	Belmont <i>et al.</i>	106	31.75	
	K12	US 5,571,311	11/05/1996	Belmont <i>et al.</i>	106	20 R	
	K13	US 5,554,739	09/10/1996	Belmont	534	885	
	K14	US 4,014,844	03/29/1977	Vidal <i>et al.</i>	260	31.2 R	
	K15	US 2001/0009733 A1	07/26/2001	Campbell <i>et al.</i>	29	44	

## FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes No
	K16	WO 02/084767 A2	10/24/2002	Cabot Corporation	


## NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	K17	TSUBOKAWA <i>et al.</i> , "Grafting of Polyesters onto Carbon Black VI. Copolymerization of Alkylene Carbonate with Cyclic Acid Anhydride Initiated by Alkali Metal Carboxylate Groups on Carbon Black Surface," <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 23:489-500 (1985)
	K18	TSUBOKAWA <i>et al.</i> , "Grafting of Polyesters on Carbon Black V. Preparation of Polyester-Grafted Carbon Black with a Higher Grafting Ratio by the Copolymerization of Epoxide with Cyclic Acid Anhydrides Using COOK Groups on Carbon Black as the Initiator," <i>Polymer Journal</i> , 16(4):333-340 (1984)
	K19	TSUBOKAWA <i>et al.</i> , "Grafting of Polyesters onto Carbon Black. III. Polymerization of $\beta$ -Propiolactone Initiated by Quaternary Ammonium Carboxylate Groups on the Surface of Carbon Black," <i>Journal of Applied Polymer Science</i> , 28:2381-2387 (1983)
	K20	TSUBOKAWA <i>et al.</i> , "Grafting of Polyesters onto Carbon Black. II. Effect of Temperature Solvent on the Polymerization of $\beta$ -Propiolactone initiated by COOK Groups on the Surface of Carbon Black," <i>Polymer Bulletin</i> , 7:589-596 (1982)
	K21	TSUBOKAWA <i>et al.</i> , "Grafting Polyesters onto Carbon Black. I. Polymerization of $\beta$ -Propiolactone Initiated by Alkali Metal Carboxylate Group on the Surface of Carbon Black," <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 20:3297-3304 (1982)
	K22	TSUBOKAWA <i>et al.</i> , "Reaction of Carbon Black Surface with Polymer Radicals Formed by the Thermal Decomposition of Azo or Peroxide Polymers," 1995 Kobe International Rubber Conference, 23 <sup>rd</sup> -27 <sup>th</sup> October 1995, p. 307-310, 012, Kobe, Japan.

Examiner Signature:

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

 <p><b>INFORMATION DISCLOSURE STATEMENT LIST</b></p> <p>(Use as many sheets as necessary)</p>	Complete if Known	
	Application Number	10/786,652
	Filing Date	February 25, 2004
	First Named Inventor	SRINIVAS
	Group Art Unit	1745
	Examiner Name	Unassigned

### U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	J1	US 4,610,938	09/09/1986	Appleby	429	42	
	J2	US 2006/0099485 A1	05/11/2006	Yamaguchi <i>et al.</i>	429	42	

### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation	
					Yes	No
	J3	EP 1 536 500 A1	06/01/2005	Yamaguchi		
	J4	JP 2003-037435	02/14/2003	Yamaguchi: Priority Document # 2 for WO 2004/017446 and EP 1 536 500	X	
	J5	JP 2002-237229	08/16/2002	Yamaguchi: Priority Document # 1 for WO 2004/017446 and EP 1 536 500	X	
	J6	JP 2001-283865	10/12/2001	Toray Industries Inc. (abstract)		
	J7	WO 2004/017446 A1	02/26/2004	Yamaguchi		

### NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	J8	MIZUHATA <i>et al.</i> , "Morphological Control of PEMFC Electrode by Graft Polymerization of Polymer Electrolyte onto Platinum-Supported Carbon Black," <i>Journal of Power Sources</i> , 138:25-30 (2004)

Examiner Signature:

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

Application Number	10/786,652
Filing Date	February 25, 2004
First Named Inventor	SRINIVAS
Group Art Unit	1745
Examiner Name	Unassigned

### U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	I1	US 2004/0186201 A1	09/23/2004	Stoffer <i>et al.</i>	523	215	
	I2	US 2004/0072683 A1	04/15/2004	Kodas <i>et al.</i>	502	224	

### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation Yes No
	I3	EP 0 360 399 A2	03/28/1990	Columbian Chemicals Company	

### NON PATENT LITERATURE DOCUMENTS

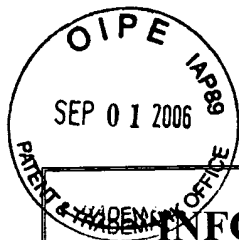
Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)

Examiner Signature:

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





## INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

Application Number	10/786,652
Filing Date	February 25, 2004
First Named Inventor	SRINIVAS
Group Art Unit	1745
Examiner Name	Unassigned

### U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	Document No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	H1	US 5,759,944	06/02/1998	Buchanan <i>et al.</i>			

### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Date	Name	Translation	
					Yes	No

### NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication)
	H2	Raven® 3600 Ultra publication, Columbian Chemicals Company (February 2004)
	H3	Raven Blacks publication, Columbian Chemicals Company (2004)

Examiner Signature:

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.